

Device for determining density.

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Cited documents:

US4023400
US4297872
EP0487499
EP0222503
GB2236591
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Abstract of EP0568521

Device for determining the density of liquids and gases from the periodic time of a vibrator (1) which is filled with a preparation and for whose excitation an exciter amplifier (13) is provided. The exciter amplifier (13) is connected to a sensor (2) which picks up the vibrations of the vibrator (1). The amplifier amplifies the sensor's signals, and the latter can be fed to a transducer (7) which is situated on the output side of the exciter amplifier (13) and drives the vibrator. To make it possible to compensate for the effect of the viscosity of the sample under examination, at least one switching circuit (5, 6), which can be switched by means of a switch (4) in the exciter amplifier (13) and which brings about a phase shift, and a switchable inverter (14), which brings about a phase reversal, are provided for the purpose of exciting vibrations of higher order.

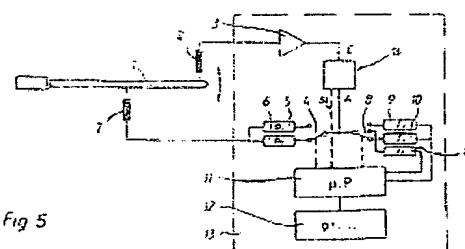


Fig 5

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